

## EAST Search History

## EAST Search History (Prior Art)

| Ref # | Hits | Search Query   | DBs   | Default Operator | Plurals | Time Stamp          |
|-------|------|--|---|------------------|---------|---------------------|
| L1    | 2    | "2004190873"   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2011/05/06<br>16:17 |
| S1    | 1    | "589437".apn.  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2008/12/17<br>16:06 |
| S2    | 29   | US-4346164-\$.DID. OR US-4480910-\$.DID. OR US-5825043-\$.DID. OR US-5610683-\$.DID. OR US-5715039-\$.DID. OR US-20040165159-\$.DID. OR US-6341007-\$.DID. OR US-6400441-\$.DID. OR US-6549269-\$.DID. OR US-6590634-\$.DID. OR US-5969441-\$.DID. OR US-6208407-\$.DID. OR US-5623853-\$.DID. OR US-5528118-\$.DID. OR US-5874820-\$.DID. OR US-20050264774-\$.DID. OR US-20060132737-\$.DID. OR US-20050030497-\$.DID. OR WO-9949504-\$.DID. OR WO-2004019128-\$.DID. OR US-5919912-\$.DID. OR US-6265326-\$.DID. OR US-4305915-\$.DID. OR US-4305917-\$.DID. OR US-6124873-\$.DID. OR US-7220990-\$.DID. OR US-8316125-\$.DID. OR US-7176468-\$.DID. OR US-1116816-\$.DID. OR US-6188169-\$.DID. OR US-8166475-\$.DID. OR US-8330224-\$.DID. OR WO-2004053958-\$.DID. OR WO-2005010962-\$.DID. OR JP-6124873-\$.DID. OR JP-10163099-\$.DID. OR JP-10214783-\$.DID. OR US-6400411-\$.DID. OR JP- | US-PGPUB;<br>USPAT; USOCR   | OR               | OFF     | 2008/12/17<br>16:07 |

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|----|------|--|---|----|-----|---------------------|
|    |      | 2000505958-\$.DID. OR JP-8166475-\$.DID. OR JP-8330224-\$.DID. OR WO-20041053958-\$.DID. OR WO-20051010962-\$.DID.   |   |    |     |                     |
| S3 | 4    | US-20010055101-\$.DID. OR US-232005D-\$.DID. OR US-6124873-\$.DID. OR US-8271999-\$.DID. OR US-9283430-\$.DID. OR WO-2005081292-\$.DID. OR WO-2005081292912005-\$.DID. OR JP-2001345263-\$.DID. OR US-20010019399-\$.DID. OR JP-9283430-\$.DID. OR US-20050024609-\$.DID. OR JP-20055713-\$.DID. | US-PGPUB;<br>USPAT; USOCR   | OR | OFF | 2008/12/17<br>16:52 |
| S4 | 5876 | 355/53.ccls.   | US-PGPUB;<br>USPAT; USOCR;<br>FFRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/12/17<br>17:31 |
| S5 | 127  | S4 and (control same time same supply\$4 same recover \$4)   | US-PGPUB;<br>USPAT; USOCR;<br>FFRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/12/17<br>17:32 |
| S6 | 2    | "147373".apn.  | US-PGPUB;<br>USPAT; USOCR;<br>FFRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/12/17<br>17:46 |
| S7 | 3    | "20020163629"  | US-PGPUB;<br>USPAT; USOCR;<br>FFRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/12/17<br>17:51 |
| S8 | 2    | "20030210322"  | US-PGPUB;<br>USPAT; USOCR;<br>FFRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/12/17<br>17:52 |

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| S9 | 63 | ("20020163629"  <br>"20030030916"  <br>"20030174408"  <br>"20040000627"  <br>"20040075895"  <br>"20040109237"  <br>"20040114117"  <br>"20040118184"  <br>"20040119954"  <br>"20040125351"  <br>"20040136494"  <br>"20040160582"  <br>"20040165159"  <br>"20040169834"  <br>"20040169924"  <br>"20040180294"  <br>"20040180299"  <br>"20040207824"  <br>"20040211920"  <br>"20040224265"  <br>"20040224525"  <br>"20040227923"  <br>"20040253547"  <br>"20040253548"  <br>"20040257544"  <br>"20040259008"  <br>"20040259040"  <br>"20040263808"  <br>"20050024609"  <br>"20050030506"  <br>"20050036121"  <br>"20050036183"  <br>"20050036184"  <br>"20050036213"  <br>"20050037269"  <br>"20050046934"  <br>"20050048223"  <br>"20050068639"  <br>"20050073670"  <br>"20050084794"  <br>"20050094116"  <br>"20050100745"  <br>"20050110973"  <br>"20050117224"  <br>"20050122497"  <br>"20050141098"  <br>"20050174549"  <br>"20050190455"  <br>"20050217135"  <br>"20050217137"  <br>"20050217703"   "4346164"  <br>"4468120"   "4480910"  <br>"5257128"   "5587794"  <br>"5610683"   "5715039"  <br>"5825043"   "5900354"  <br>"6301055"   "6788477"  <br>"7061578").PN. | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2008/12/17<br>17:55 |
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| S10 | 309    | S4 and (control same time same supply\$4)                           | US-PGPUB;<br>USPAT; USOCR;<br>FFRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/12/17<br>18:18 |
| S11 | 177    | S4 and (control same time same supply\$4 same (liquid or water))    | US-PGPUB;<br>USPAT; USOCR;<br>FFRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/12/17<br>18:21 |
| S13 | 14     | fukami-yoshio.in.   | US-PGPUB;<br>USPAT; USOCR;<br>FFRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/12/20<br>15:00 |
| S14 | 2      | "6437851".pn.   | US-PGPUB;<br>USPAT; USOCR;<br>FFRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/12/20<br>15:09 |
| S15 | 5      | 355/53.cds. and (control\$4 same timer same liquid)                 | US-PGPUB;<br>USPAT; USOCR;<br>FFRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/12/20<br>15:26 |
| S16 | 1      | "589437".apn.   | US-PGPUB;<br>USPAT; USOCR;<br>FFRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/01/06<br>15:26 |
| S17 | 2      | "6437851".pn.   | US-PGPUB;<br>USPAT; USOCR;<br>FFRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/01/06<br>15:44 |
| S19 | 2      | (first same immersion same system same auxiliary).dm.               | US-PGPUB;<br>USPAT; USOCR;<br>FFRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/01/06<br>17:04 |
| S20 | 537432 | (immersion and \$6lithograph \$5) ((supply or recovery) same valve) | US-PGPUB;<br>USPAT; USOCR;<br>FFRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/01/06<br>17:09 |

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| S21 | 44055 | ((immersion and \$6lithograph \$5) ((supply or recovery) same valve) and timer                    | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/01/06<br>17:09 |
| S22 | 23    | ((immersion and \$6lithograph \$5) and ((supply or recovery) same valve) and timer                | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/01/06<br>17:09 |
| S23 | 473   | ((immersion and \$6lithograph \$5) and ((supply or recovery) same valve)                          | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/01/06<br>17:11 |
| S24 | 117   | ((immersion and \$6lithograph \$5) and ((supply or recovery) same valve) and (gas same detect\$4) | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/01/06<br>17:12 |
| S27 | 1     | liquid and (stopping\$1device)  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/01/06<br>17:54 |
| S28 | 23    | ((immersion same liquid) and (foreign same mater)   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/01/06<br>17:55 |
| S29 | 4     | ((immersion and liquid) and (foreign same mater) and bubble                                       | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/01/06<br>17:56 |
| S30 | 5     | ((immersion ) and (foreign same mater) and bubble   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/01/06<br>17:56 |
| S31 | 6546  | ((immersion ) and bubble  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/01/06<br>17:57 |

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| S32 | 2025 | (immersion same liquid) and bubble                   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/01/06<br>17:57 |
| S33 | 208  | (immersion same liquid) and (detect\$4 same bubble)  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/01/06<br>17:58 |
| S38 | 17   | rainer and westphal                                  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/01/06<br>18:30 |
| S39 | 1    | veb and zet and microelectronic                      | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/01/06<br>18:32 |
| S40 | 60   | "221563"   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/01/06<br>18:32 |
| S41 | 12   | S40 and immersion                                    | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/01/06<br>18:33 |
| S42 | 9845 | (immersion same (fluid or liquid)).ab.               | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/01/06<br>18:36 |
| S43 | 829  | (immersion same (fluid or liquid) and (control)).ab. | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/01/06<br>18:37 |
| S44 | 829  | (immersion same (fluid or liquid) and (control)).ab. | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/01/06<br>18:39 |

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| S45 | 128  | (immersion same (fluid or liquid) and (control)).ab. and \$5lithograph\$5 | US-PGPUB;<br>USPAT; USOCR;<br>FFRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/01/06<br>18:42 |
| S46 | 7136 | 355/53,30.cds.  | US-PGPUB;<br>USPAT; USOCR;<br>FFRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/01/07<br>08:42 |
| S47 | 329  | S46 and (immersion same liquid).ab.                                       | US-PGPUB;<br>USPAT; USOCR;<br>FFRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/01/07<br>08:43 |
| S48 | 3295 | S46 and @py<"2004"  | US-PGPUB;<br>USPAT; USOCR;<br>FFRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/01/07<br>08:45 |
| S49 | 54   | S48 and liquid.ab.  | US-PGPUB;<br>USPAT; USOCR;<br>FFRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/01/07<br>08:49 |
| S50 | 14   | S48 and (immersion same liquid)   | US-PGPUB;<br>USPAT; USOCR;<br>FFRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/01/07<br>08:49 |
| S51 | 36   | S48 and (immersion )  | US-PGPUB;<br>USPAT; USOCR;<br>FFRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/01/07<br>08:50 |
| S52 | 1288 | S48 and liquid  | US-PGPUB;<br>USPAT; USOCR;<br>FFRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/01/07<br>08:51 |
| S53 | 1630 | S46 and (immersion)   | US-PGPUB;<br>USPAT; USOCR;<br>FFRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/01/07<br>08:54 |

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| S54 | 4668 | S46 and @py<"2006"   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/01/07<br>08:55 |
| S55 | 261  | S63 and @py<"2006"   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/01/07<br>08:55 |
| S56 | 52   | US-20030030916-\$.DID. OR<br>US-20040118184-\$.DID. OR<br>US-20040169834-\$.DID. OR<br>US-20040169924-\$.DID. OR<br>US-20040180294-\$.DID. OR<br>US-20040180299-\$.DID. OR<br>US-20040224265-\$.DID. OR<br>US-20040224525-\$.DID. OR<br>US-20040227923-\$.DID. OR<br>JP-57153433-\$.DID. OR JP-<br>09221982-\$.DID. OR WO-<br>2004077154-\$.DID. OR WO-<br>2005054955-\$.DID. OR WO-<br>02091078-\$.DID. OR WO-<br>2004081666-\$.DID. OR WO-<br>2004090577-\$.DID. OR WO-<br>2004090633-\$.DID. OR US-<br>1147288-\$.DID. OR US-<br>20040253547-\$.DID. OR US-<br>20040253548-\$.DID. OR US-<br>20040257544-\$.DID. OR US-<br>20040259008-\$.DID. OR US-<br>20040259040-\$.DID. OR US-<br>20040263808-\$.DID. OR US-<br>20050030506-\$.DID. OR US-<br>20050036183-\$.DID. OR US-<br>20050036184-\$.DID. OR WO-<br>2004090634-\$.DID. OR WO-<br>2004092830-\$.DID. OR WO-<br>2004092833-\$.DID. OR WO-<br>2004093130-\$.DID. OR WO-<br>2004093159-\$.DID. OR WO-<br>2004093160-\$.DID. OR WO-<br>2004095135-\$.DID. OR US-<br>20050036213-\$.DID. OR US-<br>20050037269-\$.DID. OR US-<br>20050046934-\$.DID. OR US-<br>20050048223-\$.DID. OR US-<br>20050068639-\$.DID. OR US-<br>20050073670-\$.DID. OR US-<br>20050084794-\$.DID. OR US-<br>20050094116-\$.DID. OR US-<br>20050100745-\$.DID. OR WO-<br>2005001432-\$.DID. OR WO-<br>2005003864-\$.DID. OR WO-<br>2005006026-\$.DID. OR WO- | US-PGPUB;<br>USPAT; USOCR   | OR | OFF | 2009/01/07<br>09:08 |



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|     |   | 2005008339-\$.DID. OR WO-<br>2005013008-\$.DID. OR WO-<br>2005015283-\$.DID. OR WO-<br>2005017625-\$.DID. OR US-<br>20050117224-\$.DID. OR US-<br>20050122497-\$.DID. OR US-<br>20050141098-\$.DID. OR US-<br>20050190455-\$.DID. OR US-<br>20050217135-\$.DID. OR US-<br>20050217137-\$.DID. OR US-<br>20050217703-\$.DID. OR WO-<br>2005019935-\$.DID. OR WO-<br>2005022266-\$.DID. OR WO-<br>2005024325-\$.DID. OR WO-<br>2005024517-\$.DID. OR WO-<br>2005034174-\$.DID. OR WO-<br>2005054953-\$.DID. OR WO-<br>2005062128-\$.DID. OR US-<br>20020163629-\$.DID. OR US-<br>1072002-\$.DID. OR US-<br>20040000627-\$.DID. OR US-<br>20040075895-\$.DID. OR US-<br>20040125351-\$.DID. OR US-<br>20030174408-\$.DID. OR US-<br>20040109237-\$.DID. OR US-<br>20040136494-\$.DID. OR US-<br>20040160582-\$.DID. OR US-<br>20040207824-\$.DID. OR US-<br>20040211920-\$.DID. OR WO-<br>03077037-\$.DID. OR WO-<br>2004055803-\$.DID. OR WO-<br>2004057589-\$.DID. OR WO-<br>2004057590-\$.DID. OR US-<br>20050036121-\$.DID. OR US-<br>20040114117-\$.DID. OR US-<br>20050110973-\$.DID. OR US-<br>20040119954-\$.DID. |   |    |     |                     |
| S57 | 1 | "147288".apn.  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/01/07<br>10:09 |
| S58 | 1 | "10589437"   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/13<br>13:51 |
| S59 | 2 | "7446851".pn.  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/13<br>14:09 |

|     |      |   |   |    |     |                     |
|-----|------|---|---|----|-----|---------------------|
| S60 | 1044 | ("exposure apparatus" or \$5lithograph\$6) and (control \$4 same liquid same time) and immersion  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/13<br>14:42 |
| S61 | 30   | ("exposure apparatus" or \$5lithograph\$6) and (control \$4 same liquid same time).<br>ab. and immersion  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/13<br>14:42 |
| S62 | 32   | ("exposure apparatus" or \$5lithograph\$6) and (control \$4 same liquid same time\$2).<br>ab. and immersion   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/13<br>14:48 |
| S63 | 2    | S62 not S61   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/13<br>14:49 |
| S64 | 13   | ("exposure apparatus" or \$5lithograph\$6) and (control \$4 same liquid same timer) and immersion   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/13<br>14:50 |
| S65 | 101  | ("exposure apparatus" or \$5lithograph\$6) and (control \$4 same timer) and immersion   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/13<br>15:21 |
| S66 | 64   | ("exposure apparatus" or \$5lithograph\$6) and (control \$4 same liquid same elaps\$3) and immersion  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/13<br>15:29 |
| S67 | 96   | ("20020041377"  <br>"20020061469"  <br>"20020163629"  <br>"20030011763"  <br>"20030030916"  <br>"20030174408"  <br>"20040000627"  <br>"20040075895"  <br>"20040090606"  <br>"20040109237"  <br>"20040114117"  <br>"20040118184"  <br>"20040119954"  <br>"20040125351" | US-PGPUB;<br>USPAT; USOCR   | OR | OFF | 2009/11/13<br>15:51 |

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|     |     | "20050219481"  <br>"20050219482"  <br>"20050219499"  <br>"20050225737"  <br>"20050231694"  <br>"20050237501"  <br>"20050243292"  <br>"20050245005"  <br>"20050253090"  <br>"20050259233"  <br>"20050259262"  <br>"20050270505"  <br>"20060119813"   "3648587"  <br>"4346164"   "4465368"  <br>"4480910"   "4780747"  <br>"5610683"   "5715039"  <br>"5825043"   "6208407"  <br>"6341007").FN. |   |    |     |                     |
| S68 | 727 | ("exposure apparatus" or \$5lithograph\$6) and (control \$4 same supply\$3 same time \$2) and immersion   | US-PGPUB;<br>USPAT; USOCR;<br>FFRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/13<br>16:05 |
| S69 | 104 | ("exposure apparatus" or \$5lithograph\$6) and (mass same flow same control\$4 same time\$2) and immersion  | US-PGPUB;<br>USPAT; USOCR;<br>FFRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/13<br>16:27 |
| S70 | 311 | ("exposure apparatus" or \$5lithograph\$6) and (sensor \$2 same (time or timer) same flow\$3) and immersion   | US-PGPUB;<br>USPAT; USOCR;<br>FFRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/13<br>16:40 |
| S71 | 2   | "20060164615"   | US-PGPUB;<br>USPAT; USOCR;<br>FFRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/17<br>19:13 |
| S72 | 21  | (US-20050264774-\$ or US-20010055101-\$ or US-20010019399-\$ or US-20050237504-\$ or US-20050048223-\$ or US-20050037269-\$ or US-20060152697-\$ or US-20090135382-\$ or US-20080137056-\$ or US-20070252960-\$ or US-20060256316-\$ or US-20060132738-\$ or US-20050259234-\$).did. or (US-7466392-\$ or US-7436487-\$ or US-7061578-\$ or US-   | US-PGPUB;<br>USPAT; EPO   | OR | OFF | 2009/11/18<br>12:57 |

|     |     |   |   |    |     |                     |
|-----|-----|---|---|----|-----|---------------------|
|     |     | 7242455-\$ or US-7460207-\$ or US-6437851-\$ or US-7006209-\$).did. or (WO-9949504-\$).did. |   |    |     |                     |
| S73 | 7   | S72 and elaps\$2  | US-RGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/18<br>12:57 |
| S74 | 95  | 355/30,53.ccls. and (measur \$4 same amount same liquid same (supply\$3 or recover \$4))    | US-RGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/18<br>14:09 |
| S75 | 213 | 355/30,53.ccls. and (measur \$4 same amount same liquid )                                   | US-RGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/18<br>14:14 |
| S76 | 118 | S75 not S74   | US-RGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/18<br>14:14 |
| S77 | 13  | pct/jp03/15675  | US-RGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/18<br>15:16 |
| S78 | 1   | "200315675"   | US-RGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/18<br>15:17 |
| S79 | 171 | 355/30,53.ccls. and (measur \$4 same recover\$4 same liquid )                               | US-RGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/18<br>17:19 |
| S80 | 5   | 355/30,53.ccls. and (flow same meter same recover\$4 same liquid )                          | US-RGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/18<br>17:27 |

|     |     |  |                           |    |     |                     |
|-----|-----|--|---------------------------|----|-----|---------------------|
| S81 | 103 | ("20020163629"<br>"20030022396"<br>"20030030916"<br>"20030174408"<br>"20040000627"<br>"20040075895"<br>"20040109237"<br>"20040114117"<br>"20040118184"<br>"20040119954"<br>"20040125351"<br>"20040136494"<br>"20040160582"<br>"20040165159"<br>"20040169834"<br>"20040169924"<br>"20040180294"<br>"20040180299"<br>"20040207824"<br>"20040211920"<br>"20040224265"<br>"20040224525"<br>"20040227923"<br>"20040233405"<br>"20040253547"<br>"20040253548"<br>"20040257544"<br>"20040259008"<br>"20040259040"<br>"20040263808"<br>"20040263809"<br>"20050002004"<br>"20050007569"<br>"20050007570"<br>"20050018155"<br>"20050018156"<br>"20050024609"<br>"20050030497"<br>"20050030498"<br>"20050030506"<br>"20050036121"<br>"20050036183"<br>"20050036184"<br>"20050036213"<br>"20050037269"<br>"20050041225"<br>"20050042554"<br>"20050046813"<br>"20050046934"<br>"20050048220"<br>"20050048223"<br>"20050068639"<br>"20050073670"<br>"20050084794"<br>"20050094116"<br>"20050100745"<br>"20050110973"<br>"20050117224"<br>"20050122497" | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2009/11/18<br>17:28 |
|-----|-----|--|---------------------------|----|-----|---------------------|

|     |    |  |   |    |     |                     |
|-----|----|--|---|----|-----|---------------------|
|     |    | "20050132914"  <br>"20050134815"  <br>"20050134817"  <br>"20050141098"  <br>"20050145265"  <br>"20050145803"  <br>"20050146694"  <br>"20050146695"  <br>"20050147920"  <br>"20050153424"  <br>"20050158673"  <br>"20050164502"  <br>"20050174549"  <br>"20050175940"  <br>"20050185269"  <br>"20050190435"  <br>"20050190455"  <br>"20050205108"  <br>"20050213061"  <br>"20050213072"  <br>"20050217135"  <br>"20050217137"  <br>"20050217703"  <br>"20050219481"  <br>"20050219482"  <br>"20050219499"  <br>"20050225737"  <br>"20050231694"  <br>"20050237501"  <br>"20050243292"  <br>"20050245005"  <br>"20050253090"  <br>"20050259232"  <br>"20050259233").FN. OR<br>("20050264778"  <br>"20050270505"  <br>"20070222967"   "4346164"  <br>"4480910"   "5610683"  <br>"5715039"   "5825043"  <br>"6566770"   "6940582").FN. |   |    |     |                     |
| S82 | 27 | 355/30, 53.ccls. and (flow same meter same liquid )  | US-RGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/18<br>17:43 |

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|-----|----|---|---|----|-----|---------------------|
| S83 | 8  | US-6496257-\$.DID. OR US-20050024609-\$.DID. OR US-20050205108-\$.DID. OR US-20060028626-\$.DID. OR US-20060028628-\$.DID. OR US-6844206-\$.DID. OR US-20050018208-\$.DID. OR US-20050037269-\$.DID. OR WO-2004053955-\$.DID. OR EP-1571697-\$.DID. OR EP-1628329-\$.DID. OR WO-2005031820-\$.DID. OR EP-1667211-\$.DID. OR WO-2004093130-\$.DID.   | US-PGPUB;<br>USPAT; USOCR   | OR | OFF | 2009/11/18<br>17:58 |
| S84 | 59 | Kida-Yoshiki.in.  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/18<br>18:01 |
| S88 | 66 | Irata-takeshi.in.   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/18<br>18:14 |
| S89 | 19 | US-1660921-\$.DID. OR US-232007D-\$.DID. OR US-3032338-\$.DID. OR US-20050219490-\$.DID. OR US-5825043-\$.DID. OR US-4346164-\$.DID. OR US-5610683-\$.DID. OR US-6575039-\$.DID. OR WO-2004053950-\$.DID. OR EP-1486827-\$.DID. OR EP-1510872-\$.DID. OR US-4305915-\$.DID. OR US-6357419-\$.DID. OR US-20040207824-\$.DID. OR US-20050225734-\$.DID. OR US-20050078286-\$.DID. OR JP-58202448-\$.DID. OR US-5919912-\$.DID. OR US-6265326-\$.DID. OR US-5628770-\$.DID. OR US-6124873-\$.DID. OR US-7220990-\$.DID. OR US-8316125-\$.DID. OR WO-2004019128-\$.DID. OR JP-57117238-\$.DID. OR WO-2004055803-\$.DID. OR WO-2004057589-\$.DID. OR WO-2005029559-\$.DID. | US-PGPUB;<br>USPAT; USOCR   | OR | OFF | 2009/11/18<br>18:32 |



|     |    |   |   |    |     |                     |
|-----|----|---|---|----|-----|---------------------|
| S91 | 51 | Arai-Dai.in.  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/18<br>18:49 |
| S92 | 29 | ("20020066140"  <br>"20030036282"  <br>"20030104170"  <br>"20030177703"  <br>"20040009620"  <br>"20040160582"  <br>"20050219488"  <br>"20060023181"  <br>"20060077367"  <br>"20060132737"  <br>"20060139614"   "3381879"  <br>"4112632"   "4168117"  <br>"5121710"   "5194350"  <br>"5528118"   "5610683"  <br>"5623853"   "5689749"  <br>"5874820"   "6106712"  <br>"6332723"   "6364547"  <br>"6509957"   "6688045"  <br>"6809794"   "7130037").FN. | US-PGPUB;<br>USPAT; USOCR   | OR | OFF | 2009/11/18<br>18:55 |
| S93 | 27 | ("20020066140"  <br>"20030104170"  <br>"20030177703"  <br>"20040160582"  <br>"20050219488"  <br>"20060023181"  <br>"20060077367"  <br>"20060132737"  <br>"20060139614"   "3381879"  <br>"4112632"   "4168117"  <br>"5121710"   "5194350"  <br>"5528118"   "5610683"  <br>"5623853"   "5689749"  <br>"5874820"   "6106712"  <br>"6332723"   "6364547"  <br>"6509957"   "6688045"  <br>"6809794"   "7130037").FN.                                       | US-PGPUB;<br>USPAT; USOCR   | OR | OFF | 2009/11/18<br>19:00 |
| S94 | 1  | "10589437"  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/21<br>08:09 |
| S95 | 0  | shigeru-hirukawa.in.  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/21<br>08:46 |

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| S96 | 224 | hirukawa-shigeru.in.   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/21<br>08:46 |
| S97 | 1   | "200315675"  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/21<br>08:51 |
| S98 | 61  | (<br>"20020163629"<br>"20030030916"<br>"20030174408"<br>"20040000627"<br>"20040075895"<br>"20040109237"<br>"20040114117"<br>"20040118184"<br>"20040125351"<br>"20040136494"<br>"20040160582"<br>"20040165159"<br>"20040169834"<br>"20040169924"<br>"20040180294"<br>"20040180299"<br>"20040207824"<br>"20040211920"<br>"20040224265"<br>"20040224525"<br>"20040227923"<br>"20040253547"<br>"20040253548"<br>"20040257544"<br>"20040259008"<br>"20040259040"<br>"20040263808"<br>"20050018156"<br>"20050030506"<br>"20050036121"<br>"20050036183"<br>"20050036184"<br>"20050036213"<br>"20050037269"<br>"20050046934"<br>"20050048223"<br>"20050068639"<br>"20050073670"<br>"20050084794"<br>"20050094116"<br>"20050100745"<br>"20050110973"<br>"20050117224"<br>"20050122497"<br>"20050128445"<br>"20050134817"<br>) | US-PGPUB;<br>USPAT; USOCR   | OR | OFF | 2009/11/21<br>08:56 |

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|------|----|---|---|----|-----|---------------------|
|      |    | "20050141098"  <br>"20050190455"  <br>"20050217135"  <br>"20050217137"  <br>"20050217703"  <br>"20060114445" "3648587"  <br>"4346164"   "4480910"  <br>"5610683"   "5715039"  <br>"5825043"   "7038760"  <br>"7075616"   "7098991").PN.   |   |    |     |                     |
| S99  | 0  | PCT/JP2003/15675  | US-PGPUB;<br>USPAT; USOCR;<br>FFRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/21<br>08:58 |
| S100 | 13 | PCT/JP03/15675  | US-PGPUB;<br>USPAT; USOCR;<br>FFRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/11/21<br>08:59 |
| S101 | 29 | US-4346164-\$.DID. OR US-<br>4480910-\$.DID. OR US-<br>5825043-\$.DID. OR US-<br>5610683-\$.DID. OR US-<br>5715039-\$.DID. OR US-<br>20040165159-\$.DID. OR US-<br>6341007-\$.DID. OR US-<br>6400441-\$.DID. OR US-<br>6549269-\$.DID. OR US-<br>6590634-\$.DID. OR US-<br>5969441-\$.DID. OR US-<br>6208407-\$.DID. OR US-<br>5623853-\$.DID. OR US-<br>5528118-\$.DID. OR US-<br>5874820-\$.DID. OR US-<br>20050264774-\$.DID. OR US-<br>20060132737-\$.DID. OR US-<br>20050030497-\$.DID. OR WO-<br>9949504-\$.DID. OR WO-<br>2004019128-\$.DID. OR US-<br>5919912-\$.DID. OR US-<br>6265326-\$.DID. OR US-<br>4305915-\$.DID. OR US-<br>4305917-\$.DID. OR US-<br>6124873-\$.DID. OR US-<br>7220990-\$.DID. OR US-<br>8316125-\$.DID. OR US-<br>7176468-\$.DID. OR US-<br>1116816-\$.DID. OR US-<br>6188169-\$.DID. OR US-<br>8166475-\$.DID. OR US-<br>8330224-\$.DID. OR WO-<br>2004053958-\$.DID. OR WO-<br>2005010962-\$.DID. OR JP-<br>6124873-\$.DID. OR JP-<br>10163099-\$.DID. OR JP- | US-PGPUB;<br>USPAT; USOCR   | OR | OFF | 2010/07/30<br>10:23 |

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|------|------|---|---|----|-----|---------------------|
|      |      | 10214783-\$.DID. OR US-6400411-\$.DID. OR JP-2000505958-\$.DID. OR JP-8166475-\$.DID. OR JP-8330224-\$.DID. OR WO-20041053958-\$.DID. OR WO-20051010962-\$.DID. |   |    |     |                     |
| S102 | 21   | S101 and time\$3  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2010/07/30<br>10:23 |
| S103 | 1    | "10589437"  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2010/07/30<br>10:25 |
| S104 | 0    | shigeru-hirukawa.in.  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2010/07/30<br>10:35 |
| S105 | 234  | hirukawa-shigeru.in.  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2010/07/30<br>10:36 |
| S106 | 1    | "12052507"  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2010/07/30<br>11:15 |
| S107 | 1    | "10589437"  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2010/09/08<br>15:14 |
| S108 | 8144 | 355/30,53.ccls.   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2010/09/08<br>15:33 |
| S109 | 205  | S108 and ((measur\$4 same suppl\$4) and (measur\$4 same recover\$4))  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2010/09/08<br>15:33 |

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|------|----|---|---|----|-----|---------------------|
| S110 | 9  | "9949504"   | US-PGPUB;<br>USPAT; USOCR;<br>FFRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2010/09/08<br>15:41 |
| S111 | 11 | "1724815"   | US-PGPUB;<br>USPAT; USOCR;<br>FFRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2010/09/08<br>15:44 |
| S112 | 9  | "9949504"   | US-PGPUB;<br>USPAT; USOCR;<br>FFRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2010/09/08<br>15:45 |
| S113 | 11 | "1724815"   | US-PGPUB;<br>USPAT; USOCR;<br>FFRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2010/09/08<br>15:53 |
| S114 | 29 | US-4346164-\$.DID. OR US-4480910-\$.DID. OR US-5825043-\$.DID. OR US-5610683-\$.DID. OR US-5715039-\$.DID. OR US-20040165159-\$.DID. OR US-6341007-\$.DID. OR US-6400441-\$.DID. OR US-6549269-\$.DID. OR US-6590634-\$.DID. OR US-5969441-\$.DID. OR US-6208407-\$.DID. OR US-5623853-\$.DID. OR US-5528118-\$.DID. OR US-5874820-\$.DID. OR US-20050284774-\$.DID. OR US-20060132737-\$.DID. OR US-20050030497-\$.DID. OR WO-9949504-\$.DID. OR WO-2004019128-\$.DID. OR US-5919912-\$.DID. OR US-6265326-\$.DID. OR US-4305915-\$.DID. OR US-4305917-\$.DID. OR US-6124873-\$.DID. OR US-7220990-\$.DID. OR US-8316125-\$.DID. OR US-7176468-\$.DID. OR US-1116816-\$.DID. OR US-6188169-\$.DID. OR US-8166475-\$.DID. OR US-8330224-\$.DID. OR WO-2004053958-\$.DID. OR WO- | US-PGPUB;<br>USPAT; USOCR   | OR | OFF | 2010/09/08<br>15:54 |

|      |     |  |   |    |     |                     |
|------|-----|--|---|----|-----|---------------------|
|      |     | 2005010962-\$.DID. OR JP-6124873-\$.DID. OR JP-10163099-\$.DID. OR JP-10214783-\$.DID. OR US-6400411-\$.DID. OR JP-2000505958-\$.DID. OR JP-8166475-\$.DID. OR JP-8330224-\$.DID. OR WO-20041053958-\$.DID. OR WO-20051010962-\$.DID.  |   |    |     |                     |
| S115 | 4   | US-20010055101-\$.DID. OR US-232005D-\$.DID. OR US-6124873-\$.DID. OR US-8271999-\$.DID. OR US-9283430-\$.DID. OR WO-2005081292-\$.DID. OR WO-2005081292912005-\$.DID. OR JP-2001345263-\$.DID. OR US-20010019399-\$.DID. OR JP-9283430-\$.DID. OR US-20050024609-\$.DID. OR JP-20055713-\$.DID. | US-PGPUB;<br>USPAT; USOCR   | OR | OFF | 2010/09/08<br>16:44 |
| S116 | 103 | ((KENICHI) near2 (SHIRAI SHI)).INV.  | US-PGPUB;<br>USPAT  | OR | OFF | 2010/09/08<br>16:47 |
| S117 | 7   | S116 and timer   | US-PGPUB;<br>USPAT  | OR | OFF | 2010/09/08<br>17:08 |
| S125 | 7   | US-7557900-\$.DID. OR US-6124873-\$.DID. OR US-8271999-\$.DID. OR US-8037149-\$.DID. OR US-4065603-\$.DID. OR US-7176468-\$.DID. OR US-1116816-\$.DID. OR US-6188169-\$.DID. OR US-8166475-\$.DID. OR US-8330224-\$.DID. OR JP-6124873-\$.DID.   | US-PGPUB;<br>USPAT; USOCR   | OR | OFF | 2010/12/16<br>16:43 |
| S126 | 1   | "10589437"   | US-PGPUB;<br>USPAT; USOCR;<br>FFRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2010/12/16<br>17:14 |
| S127 | 1   | "11689926"   | US-PGPUB;<br>USPAT; USOCR;<br>FFRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2010/12/17<br>12:08 |

5/6/2011 4:18:27 PM

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